

WHAT IS CLAIMED IS:

1. A string type air damper comprising:
a cylinder formed in a tubular shape, defining a guide hole
at one end portion thereof;
a piston, which moves in the cylinder;
a helical spring for biasing the piston toward the other
end portion of the cylinder; and
a string member guided from inside of the cylinder to
outside thereof through the guide hole, wherein:
the piston and the string member are integrally formed.

2. The string type air damper according to claim 1,
wherein:

the string member branches into a plurality of portions
and connects with the piston at a base end portion thereof; and
the portions come together at a forward end portion of the
string member.

3. The string type air damper according to claim 1,
wherein:

the string member has a belt shape;
the guide hole of the cylinder has a flat opening and a
smooth arcuate face continuing to a wide width edge of the
opening; and

the string member having the belt shape is bent and guided along the arcuate face of the guide hole.

4. The string type air damper according to claim 1, wherein:

the piston and the string member are formed of a first material;

a reinforcing plate is formed of a second material harder than the first material; and

the reinforcing plate is attached to the piston to serve as a mount for receiving the helical springs.

5. A string type air damper comprising:

a cylinder formed in a tubular shape;

a piston, which moves in the cylinder;

a helical spring for biasing the piston toward one end portion of the cylinder;

a guide cap attached to the other end portion of the cylinder and defining a guide hole; and

a string member guided from inside of the cylinder to outside thereof through the guide hole, wherein:

the guide cap and the string member are formed integrally; and

the string member is hooked to the piston within the cylinder and is guided to the outside thereof.

6. The string type air damper according to claim 5,
wherein:

the string member branches into a plurality of portions;
a base end portion of the string member is connected to
the guide cap;

the plurality of portions come together at a forward end
portion of the string member; and
the portions are hooked at the piston.